

CLAIMS

1. A supramolecular assembly comprising a plurality of hydrogen bonded molecules, each molecule contains regularly spaced, multiple site hydrogen bonding groups and wherein at least a proportion of the molecules are bonded to other molecules at sites other than at terminal locations
2. An assembly as claimed in claim 1 wherein the hydrogen bonded molecules are pharmacologically acceptable
3. An assembly as claimed in claim 1 or claim 2 wherein the hydrogen bonding sites are separated by hydrophobic moieties
4. An assembly as claimed in any one of claims 1 to 3 wherein the hydrophobic moiety is derived from an alkyl diacid or functional derivative thereof
5. A compound that is capable of being hydrogen bonded to form a supramolecular assembly having the general formula (I):



where:

**A** may be the same or different and is a moiety containing at least one hydrogen bond donor and/or acceptor sites,

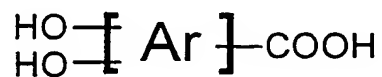
**N** may be the same or different and is a moiety containing at least one hydrogen bond donor and/or acceptor,

**X** may be the same or different and is a difunctional spacer linkage or unit

and **n** is an integer having a value of at least one.

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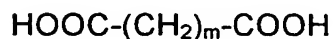
6. A compound as claimed in claim 5 wherein the moieties **A** and **N**, contain hydroxyl or carboxyl groups
7. A compound as claimed in claim 5 or claim 6 wherein **A** is an aromatic moiety of the general formula (II):



(II)

Where **Ar** is an unsubstituted or substituted aromatic nucleus.

8. A compound as claimed in any of claims to 7 wherein **Ar** is phenyl or benzyl
9. A compound as claimed in any of claims 5 to 8 wherein the compound of Formula (II) is 2,5- dihydroxybenzoic acid or 2,3-dihydroxybenzoic acid
10. A compound as claimed in any of claims 5 to 9 wherein **N** is a moiety containing at least three hydrogen bond acceptance or donation sites.
11. A compound as claimed in any of claims 5 to 10 wherein **X** is an alkyl diacid of the general formula:



Wherein *m* is an integer having a value of at least 2, or a functional derivative thereof

12. A compound as claimed in Claim 11 wherein **X** is derived

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from dodecanedioic-, decanedioic-, octanedioic- or hexanedioic acids or an acid chloride thereof

13. An assembly comprising the aggregation of compounds of the general formula (I) as defined in claim 5
14. An artefact manufactured from an assembly as claimed in any one of claims 1 to 4 or from a compound as claimed in any one of claims 5 to 13

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